



Convection Exhibits



Break the Cycle

Participants will learn that they can slow heat loss by convection by either closing off escape routes for warm air or closing gaps that allow cold air to come in.

<https://www.youtube.com/watch?v=7YK1sa2IOEA>

A look inside the exhibit:

<https://www.youtube.com/watch?v=p-cZlV6X8gA>



Wind in the Walls

Participants will learn that air moves within a wall by convection and that they can use insulation to slow this air movement and the resulting heat loss.

<https://www.youtube.com/watch?v=1P0HD0t3Txw>

A look inside the exhibit:

<https://www.youtube.com/watch?v=e0-EjxHAfJA>



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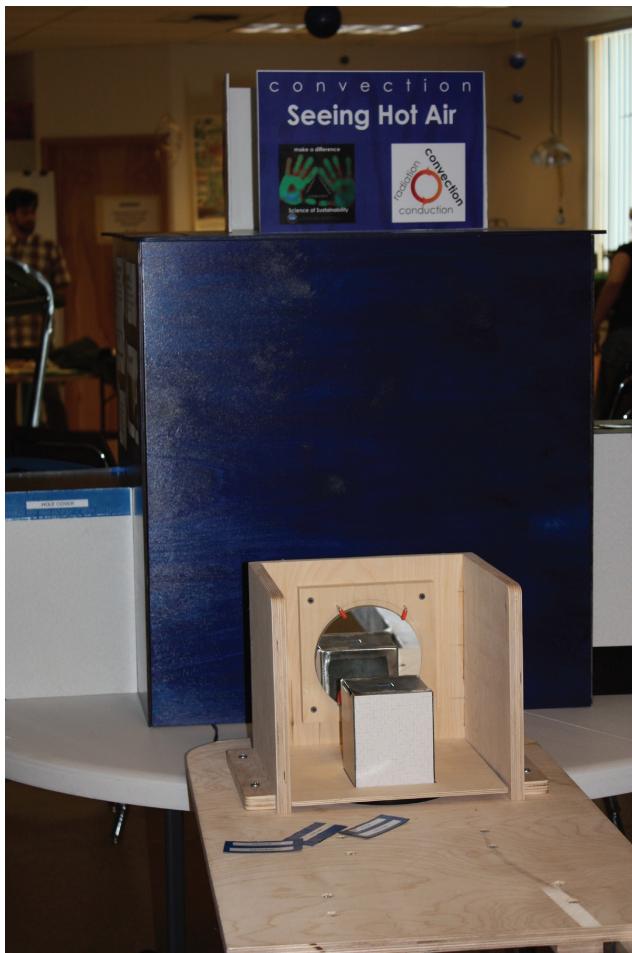
Stack Effect

Participants will learn that convection causes rapid loss of heated air through openings in the upper part of the building envelope.

<https://www.youtube.com/watch?v=WcptUfTulsA>

A look inside the exhibit:

<https://www.youtube.com/watch?v=ajlGxaIL1ok>



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Seeing Hot Air

Participants will use an optical system to see moving plumes of hot air and learn how those plumes flow out of openings in a model house.

<https://www.youtube.com/watch?v=eEoANA1gn8Q>



A look inside the exhibit:

<https://www.youtube.com/watch?v=yrasYJdcKxw>